

Livestock Program



Policy Goal

To Increase, Diversify, & sustain Agricultural Production, Food Security, Income and employment generation




Major Achievements Beef Cattle

➤ **Objective:** To facilitate formal Export of cattle to Guatemala and Mexico.

Activity	Completed Accomplished	Observations/Results/contribution
To facilitate formal exports of beef cattle to Guatemala	76	<ul style="list-style-type: none"> • Bullet Tree and Jalacte export outlets were abruptly closed. • Covid 19 Restrictions made it even more difficult to informally export. • Economic Contribution: \$116,100.00
To facilitate formal cattle exports to Mexico Facilitate exports -- Blue Economy (Nov. 13, 2020, to April 25 th , 2021)	847 23,442	<ul style="list-style-type: none"> • Covid Restrictions, communication and coordination among line Ministries considered to be major challenges. • Economic contribution: \$630,890.40 • Economic Contribution more than \$27,895,980. Has impacted the lives of more than 5,000 cattle producers. • 2020 exports Jan-Dec= 15,296 animals

CATTLE EXPORT



7:19 

Pedro SuKarne
Yesterday, 9:06 PM

Belize prepara ex

Productores del país centroamericano han c

Por Miguel Ángel Fernández

CHETUMAL, 24 de abril.- Aunque la frontera México-Belice está cerrada al paso de personas, no es así para las mercancías y uno de los sectores que ha sido beneficiado del lado beliceño es el ganadero, pues prepara la exportación de 450 cabezas de ganado en los próximos días.

Los productores ganaderos están vendiendo a la empresa SuKarne.

Un total de 450 animales fueron vacunados y se están preparando para ser exportados a través de la frontera norte a México, informó el oficial agrícola, Belarmino Esquivel.

"Están en cuarentena durante 21 días, por lo que en un mes deberíamos estar exportando 450 animales a México". Los animales están en cuarentena en el rancho en Shipyard.

Miguel de Paz, jefe veterinario del Ministerio de Agricultura, dijo que los animales deben estar preparados para cumplir con los requisitos de exportación establecidos por la Senasica de México, similar a la Autoridad de Sanidad Agrícola de Belice (BAHA).

El pasado viernes, el ganado recibió una serie de vacunas contra el ántrax, la fiebre, la influenza, la rinotraqueítis infecciosa, la diarrea viral bovina y la leptospirosis. Durante la cuarentena de 21 días se les harán pruebas de tuberculosis y brucelosis.

Hasta el momento, según el ministro de Agricultura, Abelardo Mai, se han exportado más de 20



Autoridades de Belice

mil animales, valorados en 30 millones de dólares equivalentes a unos 2 millones de pesos. De tal manera que la exportación de ganado ahorrará el segundo lugar después de la exportación de frutas en el norte de Belice.

Buscan más clientes en México

Si bien, Belice ha estado buscando a la empresa SuKarne, el ministro de Agricultura...

Por Moisés Omar Soto Suárez 

Prevenir

Achievements Beef Cattle

- ▶ **Objective:** Determine the present sanitary status in Belize with respect to Bovine Tuberculosis and Bovine Brucellosis and to obtain free herd status and maintain a free country status for both diseases.

Activity	Plan for	Accomplished	Observations
Epidemiological report was formulated and submitted to SENASICA to achieve the above objective.	I	I	<ul style="list-style-type: none">• Status: Pending feedback from SENASICA. Objective :To achieve entire country free status.• First report Result: Free Status Recognition for Blue Creek and the entire Orange Walk District

Achievements

Beef Cattle

- ▶ **Objective:** To Implement a Bovine Spongiform Encephalopathy Surveillance(BSE) and request from the OIE a BSE risk Status Classification.

Activity	Plan for	Accomplished	Observations
▶ To establish a BSE surveillance program to achieve 22,100 points required by the OIE to classified Belize from undetermined to a control status.	22100 points	17000 points	There is need to aggressively sensitize farmers to cooperate in achieving this result.

Achievements

Beef Cattle

Objective: To implement a livestock farm registry and an Animal Identification System with proper movement control.

Activity	Plan for	Accomplished	Observations
<ul style="list-style-type: none"> ▶ Implement a livestock farm registry and an Animal Identification System (Belize Livestock Registry) with proper movement control. In accordance with OIRSA Regional Traceability Standards. ▶ Farm Audit 	<p>I</p> <p>5174 farms</p>	<p>I</p> <p>1820 farms</p>	<p>Traceability is a critical element if we are to access any export market. The Belize Livestock Registry (BLR) has identified to date a total of 5,137 cattle producers and a total of 5,174 establishments countrywide. 3,605 ranchers of the total producers have below 50 heads of cattle in their establishment making it a small farm operation. National herd 186,426</p>

Achievements

- Guatemala and Mexico Export requirements successfully accomplished
- Fines levied upon non-compliant farmers (movement restrictions) were reduced to 50% so as to get the cattle tested
- Contributed with BLPA in the development of a Strategic plan, Implementation Plan, Marketing Plan, communication plan and M&E scorecard for the Industry.
- TB and Br Free Status auto declaration completed
- Collaborated with BLPA to upgrade the Northern Border Corral for cattle inspection
- Higher prices for cattle obtained: From US\$0.68/Lb to US\$0.85/Lb.
- Collaborated with BAHA and BLPA to prepare 450 animals for the Mexican Market

Strategic Action

Objective: To increase the productivity and competitiveness of the beef cattle Industry through research, Innovation and technology transfer (Genetics, Improved Nutrition, Animal Health, improved Mgt, Livestock Resiliency)

Activity (GENETICS)	outputs	Outcomes	Time frame	Budget
<ul style="list-style-type: none"> ▶ Re-structure the Natural Breeding Program to include A.I. and Embryo Transfer ▶ To maintain an active Bull Rental Service ▶ 6 trainings in Breeding, animal nutrition, animal health, and Livestock Resiliency ▶ Conduct one farmer exchange visit to breeding units in Mexico ▶ Public-private/ Partnership to establish a registry of certified breeders 	<ul style="list-style-type: none"> • 80 breeding animals produced with superior genetics • 50 farmers benefited • 12 Technicians Trained and 120 cattle producers • Establish collaboration for tech. transfer • 2-3 certified breeding units North, Central and South 	<ul style="list-style-type: none"> • Productivity increased by 5 to 10% • Productivity Increased by 10% • 50 cattle producers adopting best practices along the V.C • Increase quality of Meat, increase Productivity, increase family income • Medium and large producers increase 10% increase in over cattle production performance. 	<ul style="list-style-type: none"> • Apr-Mar • Apr-Mar • May –Jul • 2 yrs 	<ul style="list-style-type: none"> • A.I. 6000 • E.T. 40,000 • 0 • 12000 • 5000

Strategic Action

Objective: To increase the productivity and competitiveness of the beef cattle Industry through Market Access, Research, Innovation and technology transfer (Genetics, Improved Nutrition, Animal Health, improved Mgt, Livestock Resiliency, DATA Mgt)

Activity (MARKETS)	outputs	Outcomes	Time frame	Budget
<ul style="list-style-type: none"> ▶ Expand current Markets and access new markets ▶ Train technical officers and cattle producers in export requirements ▶ To actively participate in the TTC meetings ▶ To maintain oversight of the BLR and Diseases of quarantine/economic importance 	<ul style="list-style-type: none"> • Assertively pursue formal exports to • 12 technicians trained • 6 Meetings attended • Updated BLR registry and Disease Surveillance particularly BSE 	<ul style="list-style-type: none"> • Formal Exports increased by 10% • More foreign Exchange • Improved livelihoods 	<ul style="list-style-type: none"> • Apr-Mar • Apr- Mar • Apr – Mar • Apr-Mar 	<ul style="list-style-type: none"> • 5000 • 10,000 • 12,000 • 5000

Strategic Action

Objective: To increase the productivity and competitiveness of the beef cattle Industry through Market Access, Research, Innovation and technology transfer (Genetics, Improved Nutrition, Animal Health, improved Mgt, Livestock Resiliency)

Activity (Research/adaption)	outputs	Outcomes	Time frame	Budget
▶ Establish on-farm demonstrations (protein/energy banks)	• 3 demo established	<ul style="list-style-type: none"> • Knowledge of famers is enhanced and adopt technology • Famer's/family income increased • Productivity increases • Profit increase • Resilient Value Chain 	Apr-Mar	• 3000
▶ Establish demonstration of improved grasses)	• 3 demo establish • 100 producers trained		• Apr-Mar	• 3,000
▶ trainings in climate smart practices (productivity, adaptation and mitigation)	• 6 trainings completed • 100 farmers trained		• Apr – Mar	• 4,000
▶ Establish 2 aquaponics forage demonstration units in	• 2 aquaponic forage production unit establish			• 2000
▶ Establish 1 sylvopastoral demonstration plot in C.F.	• 10-acre plot established • 100 cattle producers trained		• Apr-Mar	• 5000



Dairy Strategic Plan

CURRENT SITUATION

- Belize's dairy industry has always been under a greater challenge than other agro-industries:
 - 1. Traditionally domestic
 - 2. Short product shelf life
 - 3. Challenged heavily by imports
 - 4. Most imported dairy products come from countries that subsidize their dairy Industry

GOALS: INCREASE PRODUCTIVITY AND COMPETITIVENESS

Increase

Increase milk production at an average of 15% per annum over the next 5 years

Increase

Increase the number of dairy farmers in Belize by 20% by 2025

Improve

Improve the quality of milk and milk by-products produced in Belize

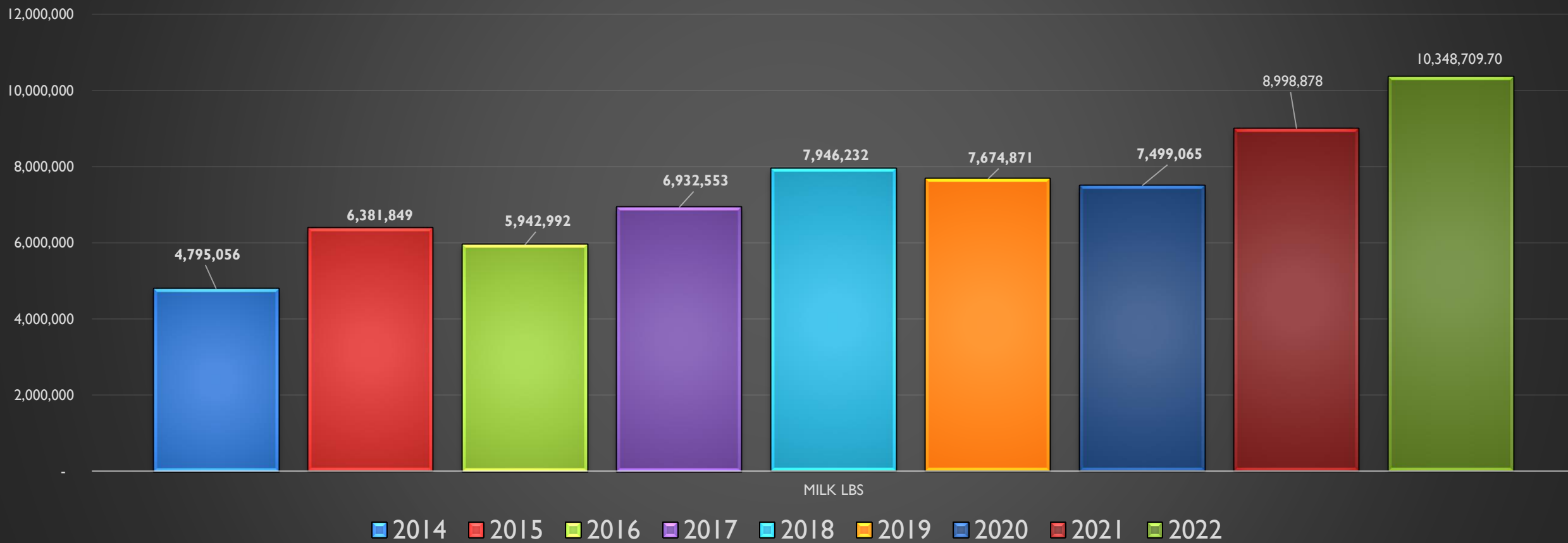


LINES OF ACTION

- **Increase milk production at a rate of 15% per year.**
 - Increase the number of dairy cattle
 - Improved breeding stock
 - increasing market demand & Export
- **Increase the number of dairy farmers by 20%**
 - Increase dairy farmers
 - Special financing programs for dairy farmers
 - Duty exemption on milking equipment, cooling systems, transportation equipment
- **Improve the Quality of Milk**
 - Provide training and technical assistance for milk production, collection & transportation
 - Sharing of best practices from dairy production



MILK PROJECTION

MILK RECEIVED FROM FARMERS 2014-2020



HONEY INDUSTRY (CDF)

ACHIEVEMENTS

Activity	Plan	Com p.	Observation
<ul style="list-style-type: none"> To establish Apiary Demonstration 	3	2	
<ul style="list-style-type: none"> To establishment of Honey extraction and harvesting shed. 	1	1	
<ul style="list-style-type: none"> To develop Standard apiary management guide 	1	1	
<ul style="list-style-type: none"> Establishment of Flowering tree multiplication plot for the demonstration apiary. 	1	1	
<ul style="list-style-type: none"> Draft and finalize hive inspection form to be used as a quality assurance tool for traceability 	1	1	
<ul style="list-style-type: none"> Draft and finalize specification for Protective equipment, Standard bee boxes ,Criteria for selection of beneficiaries and mentors for CDF beekeeping project. 	1	1	
<ul style="list-style-type: none"> Development of Lesson plans with technical team as per training curriculum 	1	1	

TECHNICAL TRAINING EXCHANGE VISIT IN GUATEMALA & COSTA RICA

- The training in Guatemala was from 6th to 17th January and 13 participants from Belize attended the two weeks training. The training consisted of 5 modules and introduced participants to all the aspects of beekeeping from the biology, best practices, pest and disease, queen rearing, value addition and marketing of honey. As well as field visit to honey processing facility, wax processing, and small business entrepreneur in equipment making manufacturing.



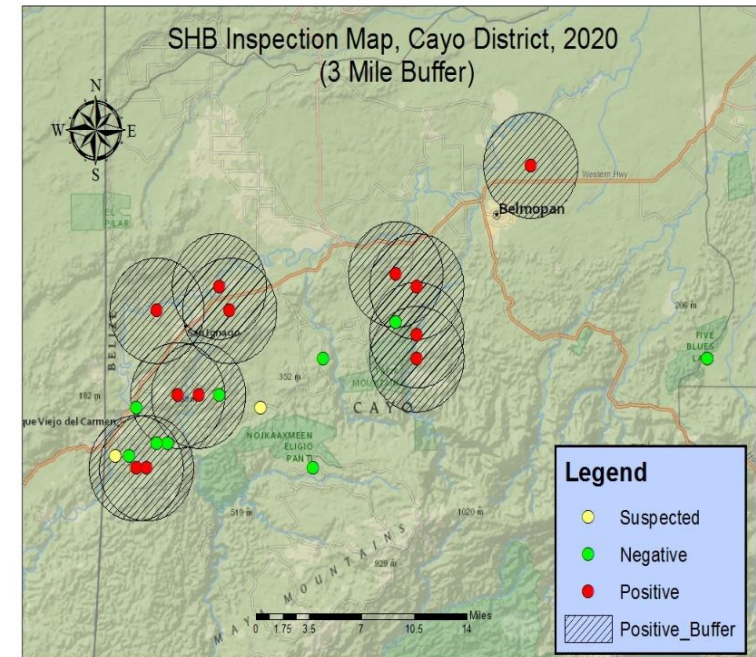
The objective of the exchange visit was to build the institutional and government linkages, identify innovations in marketing and product diversification, and observe the implementation of Good production and manufacturing Practices and a honey traceability system, for the development of the local beekeeping Industry

ACHIEVEMENTS

- Collaborating with UB capacity building



- SHB survey



■ PLAN---2021

NATIONAL BEEKEEPING
TECHNICAL COMMITTEE

Objectives: CDF Project—Bz\$900,466.00

- ✓ Increase rural livelihood opportunities through beekeeping in farming communities especially among women and youth.
- ✓ Increase national production and productivity of beekeeping.
- ✓ Increase the quality of honey and honey products through the promotion of standards and good manufacturing practices.

Plan 2021 will include:

1. Capacity Building
2. Establishment of demo. Plot
3. Beekeeping equipment materials.
4. Management and enabling environment



POULTRY

POULTRY

Achievements:

- Establish and institutionalize two breeding units
- Backyard Poultry Biosecurity Field Manual
- Backyard Poultry Biosecurity Videos
- Backyard Poultry Biosecurity Posters

POULTRY PERFORMANCE

PLAN---2021

Poultry Sector performance

1. Poultry Production

Production statistics 2020, a total of **11,920,735 broilers** were slaughtered with a total live weight of **46,958,132 lbs** and yielding **37,808,579 lbs** of dress weight in 2020;

compared to **12,565,757** birds slaughtered with a total live weight of **59,501,708 lbs** and yielding **47,731,243 lbs** in dress weight in 2019.

2. Eggs, hens, and Broiler Meat Exports 2020

- A total of **185,250 dozen** of eggs were exported resulting in a total economic contribution of **Bz\$464,977.00**
- A total of **307,097 hens** were exported resulting in a total economic contribution of **Bz\$617,265.00**
- A total of **15,950 LBS broiler meat** was exported generating an economic contribution of **Bz\$ 32,000.00**
- Cumulative total economic contribution of eggs, hens, and broiler meat exports accounts to **Bz\$1,114,242.**

Plan 2021: Increase national production and productivity through improved genetics

- To pursue market access , Disease surveillance (A.I. surveillance & Newcastle)
- Increase production and Productivity of small producers through improved genetics
- Two production Breeding Units -----Toledo and Orange Walk
- Promote backyard poultry under biosecurity

■ PIG SECTOR

PLAN---2021

- **Objective 1:** To provide a consistent supply of superior genetics to local producers
 - 3 breeding stations (Toledo, Stann Creek and Orange Walk)
- **Objective 2:** Capacity building in the area of breeding, animal health, Nutrition and Improved Mgt.
- **Objective 3.** Regulate and control imports to support local production and prepare for export.
 - Disease surveillance
 - Annual Survey
 - Registry - Traceability



SHEEP

■ SHEEP
PLAN---2021

- **Objective:** To provide a consistent supply of superior genetics to local producers
- 35 Katahdin breeding Unit (Pedigree)
- Capacity building in the area of breeding, animal health, Nutrition and Improved Mgt.
- Establish a registry system under the BLR platform
- Improve meat quality and increase local consumption
- Annual Survey

National Aquaculture Program



Program

Objectives:

- I Supply high quality, 'all male' tilapia fingerlings to small & medium scale fish farmers
- II. Provide Extension services to fish and shrimp farmers
- II. Education/Training for farmers, students & public in proper fish farming methods.

Achievements : Tilapia Value Chain completed. 90 tilapia farmers benefited from extension Service

Fingerlings

- 172,530 fingerlings in 2015
- 193,112 fingerlings in 2016
- 229,931 fingerlings in 2017
- 158,338 fingerlings in 2018
- 118,362 fingerlings in 2019
- 107,779 fingerlings Jan-Aug

Program Obj: Fish Processing

- Production of Whole-gutted tilapia and tilapia fillet
- Cost of Production estimated
- Packaging trials



OTHER IMPORTANT ACHIEVEMENTS

- Coordinated the compilation of the CAP II budget
- Part of the National Agroforestry Policy Development Team
- Active participation in the National and International funded projects (CERC, CDF, FAO, AFOLU 2040 Belize, Red)
- Establishment of the COVID 19 Response Team ---March 25th (40 participants of the public and private sector)
- Active representation of CIRSA Meeting held on May 8th, 2020
- Coordinated the 2020 Female, Male and Junior farmer of the year competition
- Introductory Meeting with the Newly appointed Governor of Central Bank to Establish areas of collaboration
- Coordinated Ministerial meetings with Guatemala and Mexico to formalize cattle trade
- Facilitated Negotiations between Mexico and Belize to trade water buffalo
- Strengthen Public/private platforms to enhance communication and coordination in the livestock subsectors (pig council, Dairy, cattle, sheep, honey, poultry, aquaculture is pending)
- Beef Cattle Annual Accountability Seminar successfully conducted despite Covid 19 Restrictions and Annual Report submitted
- Active role in the TTC for the GUAT, MEX and Taiwan PSA
- Active Representation for the implementation of the Third-Party Insurance project
- Contributed to the development of the most popular Noti-Cortos in the Ministry's Newsletter, Breaking News, and Mexican News Paper
- Cattle Industry status report completed and presented to Management
- Successful rescuing cattle from Maypen
- Coordinated consultation with cattle stakeholders to discuss PSA
- Strengthen collaboration with Yatche and BMDC to develop the honey industry

THANK YOU FOR YOUR KIND ATTENTION

- **Acknowledgement To:** Minister, CEO, CAO, Advisor and communication personnel, the Media, National Program Coordinators, DACs, Senior Management, Cooperatives, Mr. Denzel, Mr. Mejia, Extension Officers, Mr. Miguel Sosa, Partners in Development, Line Ministries, BLPA, BAHA, IICA, FAO, Food and Security Commission, OIRSA, Pig council, Dairy Association, Honey Steering Committee, Poultry Association, ROC/Taiwan, Covid 19 Response Team, Policy, Central Farm, IT, Accounts Unit, HR, Line Ministries, farmers